



Construction Method Horizontal Directional Drilling

Project: Paradise Point Water System
Raw Water Transmission Main

Location: Clark County, Washington

Job Scope:

- ❖ Trenchless Consultant for Design
- ❖ Planning Geotechnical Investigation
- ❖ Specialty Construction Inspection - HDD

Project Description:

Staheli Trenchless Consultants has a strong background in the design and construction inspection of challenging HDDs with over 20 years of experience. The Paradise Point Water System Project consisted of deal HDDs that were 20- and 24-inch in diameter, each approximately 1.200 feet in length. These pipelines crossed beneath the East Fork of the Lewis River in Southern Washington, just north of the Oregon border

Staheli Trenchless has a focus on reducing project risk. One way that we accomplish this is to participates in the planning of the geotechnical investigation for trenchless projects to ensure that the appropriate amount of geotechnical information is captured. Our goal is to collect the information necessary to characterize the site and recommend the appropriate level of geotechnical testing to provide the contractor with enough information to prepare a solid bid and protect the Owner from a Differing Site Conditions claim. The appropriate geotechnical information on this project allowed STC to perform hydrofracture analysis to determine the horizontal profile of the HDD to minimize the risk of inadvertent fluid returns and escape of drilling fluids into the East Fork of the Lewis River.

During the construction of the HDDs, Staheli Trenchless performed specialty construction inspection, collecting machine data and performing real-time drilling analysis to proactively assess risk and facilitate on-site project solving and minimizing the incident of claims.



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